

Title (en)  
Polysiloxane based dental materials

Title (de)  
Dentalmaterialien auf der Basis von Polysiloxanen

Title (fr)  
Matériaux dentaires à base de polysiloxane

Publication  
**EP 1022012 B1 20051123 (DE)**

Application  
**EP 00250006 A 20000111**

Priority  
DE 19903177 A 19990121

Abstract (en)  
[origin: EP1022012A2] Dental material contains polysiloxane(s) based on silane(s) (I), which has an alkyl- or acyl-aminoalkyl group with 1-6 (alkyl)acryloyloxy substituents, and optionally other silicon, aluminum, zirconium, titanium, boron, tin, vanadium and/or phosphorus compound(s) capable of hydrolytic condensation. Dental material contains polysiloxane(s) based on silane(s) of formula (I), which has an alkyl- or acyl-aminoalkyl group with 1-6 (alkyl)acryloyloxy substituents, and optionally other silicon, aluminum, zirconium, titanium, boron, tin, vanadium and/or phosphorus compound(s) capable of hydrolytic condensation; X = halogen, hydroxyl (OH), alkoxy and/or acyloxy; n = 1-3; R<1> = alk(en)yl, aryl, alkylaryl or arylalkyl; R<2> = alkylene; R<3> = a linear, branched or cyclic, saturated or unsaturated, aromatic aliphatic organic group with 2-40 carbon (C) atoms, optionally 1-6 hetero-atoms and p substituents; R<6> = a linear, branched or cyclic 1-20 C organic group with q substituents or is absent; p, q = 1-6; Y = -NR<4>-, N or -(C=O)-NH-; R<4> = alkyl or aryl; Z = oxygen (O), sulfur (S), -(C=O)-O-, -(C=O)-NH- or -O-(C=O)-NH- or is absent; W = CH2=CR<5>-(C=O)-O-; R<5> = hydrogen (H) or alkyl; m = 2 if Y = N; and m = 1 if Y = NR<4>- or -(C=O)-NH-.

IPC 1-7  
**A61K 6/093**

IPC 8 full level  
**A61K 6/896** (2020.01); **C08F 30/08** (2006.01)

CPC (source: EP)  
**A61K 6/30** (2020.01); **A61K 6/887** (2020.01); **A61K 6/896** (2020.01)

C-Set (source: EP)  
1. **A61K 6/896 + C08L 83/12**  
2. **A61K 6/30 + C08L 51/085**  
3. **A61K 6/30 + C08L 83/12**  
4. **A61K 6/887 + C08L 51/085**

Cited by  
CN111032747A; EP1878760A3; EP1914260A1; US7101942B2; US8076441B2; US7264882B2; EP1878760A2; WO0108639A1; WO2006111373A1; WO0211681A1; US7041709B2; US7932414B2; WO2005040249A1; WO03070198A1

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